### FINT COOPERATION TREA

From	the	INTER	NAT	ONAL	BURE	ΞAU

### **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
23 November 2000 (23.11.00)

International application No.
PCT/US00/09493

International filing date (day/month/year)
11 April 2000 (11.04.00)

Applicant
PATEL, Gordhanbhai, N.

X in the demand file	ed with the International Preliminary Examining Authority on:
	03 November 2000 (03.11.00)
in a notice effecting	ng later election filed with the International Bureau on:
ne election X wa	es e
wa	as not
ade before the expirat ule 32.2(b).	tion of 19 months from the priority date or, where Rule 32 applies, within the time limit under

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Antonia Muller

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

MC



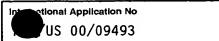
### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report 20) as well as, where applicable, item 5 below.				
PATL010/PCT	ACTION	(Earliest) Priority Date (day/month/year)				
International application No.	International filing date (day/month/year)					
PCT/US 00/09493	11/04/2000	13/04/1999				
Applicant	Applicant					
DATEL Condition had N						
PATEL, Gordhanbhai, N.						
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant				
	_					
This International Search Report consists	of a total of sheets. a copy of each prior art document cited in this	roport				
X It is also accompanied by	a copy of each phor an document cited in this	тероп.				
Basis of the report						
<ul> <li>a. With regard to the language, the language in which it was filed, un</li> </ul>	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the				
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	he international application furnished to this				
		nternational application, the international search				
was carried out on the basis of th contained in the internation	e sequence listing : onal application in written form.					
filed together with the inte	ernational application in computer readable for	m.				
furnished subsequently to this Authority in written form.						
furnished subsequently to this Authority in computer readble form.						
	bsequently furnished written sequence listing d as filed has been furnished.	loes not go beyond the disclosure in the				
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished						
2. Certain claims were fou	ınd unsearchable (See Box I).					
3. Unity of invention is lac	sking (see Box II).					
4. With regard to the <b>title</b> ,						
1	ubmitted by the applicant.					
	shed by this Authority to read as follows:					
5. With regard to the abstract,						
	ubmitted by the applicant.					
the text has been establi	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.				
6. The figure of the <b>drawings</b> to be pub	olished with the abstract is Figure No.	<del></del>				
as suggested by the app	licant.	None of the figures.				
because the applicant fa	iled to suggest a figure.					
because this figure bette	r characterizes the invention.					

### INTERNATIONAL SEARCH REPORT





A. CLASSIF IPC 7	FICATION OF SUBJECT MATTER A61L2/28 G01N31/22				
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS	SEARCHED				
	cumentation searched (classification system followed by classification	on symbols)			
IPC 7	A61L G01N	, , , , , , , , , , , , , , , , , , , ,			
Documentati	ion searched other than minimum documentation to the extent that su	uch documents are included in the fields se	arched		
Electronic da	ata base consulted during the international search (name of data bas	se and, where practical, search terms used	)		
	ternal, WPI Data, PAJ				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		· · · · · · · · · · · · · · · · · · ·		
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.		
X	WO 98 58683 A (MINNESOTA MINING & 30 December 1998 (1998-12-30) page 4, line 3 -page 5, line 10	MFG)	1-18, 27-41		
Α	WO 98 52621 A (MINNESOTA MINING & 26 November 1998 (1998-11-26)	MFG)			
Α	US 4 407 960 A (TRATNYEK JOSEPH P 4 October 1983 (1983-10-04) 	)			
Furt	ner documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.		
"A" docume	tegories of cited documents : ent defining the general state of the art which is not	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the	the application but		
"E" earlier o	lered to be of particular relevance locument but published on or after the international	invention "X" document of particular relevance; the o	laimed invention		
"L" docume	filing date  cannot be considered novel or cannot be considered to  "L" document which may throw doubts on priority claim(s) or  involve an inventive step when the document is taken alone				
which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) "another "y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the					
"O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docu- other means document is combined with one or more other such docu- ments, such combination being obvious to a person skilled					
"P" document published prior to the international filing date but in the art.  later than the priority date claimed "&" document member of the same patent family					
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report		
2	7 July 2000	04/08/2000			
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer			
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fav. (+31-70) 340-3016	Heck, G			

### INTERNATIONAL SEARCH REPORT

on on patent family members

ational Application No
US 00/09493

Patent document cited in search repor	t	Publication date		atent family member(s)	Publication date
WO 9858683	Α	30-12-1998	AU EP	8174798 A 0991432 A	04-01-1999 12-04-2000
WO 9852621	Α	26-11-1998	US AU EP	6063631 A 7581498 A 0984792 A	16-05-2000 11-12-1998 15-03-2000
US 4407960	Α	04-10-1983	CA	1170551 A	10-07-1984

### **PCT**



### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PATL010/PCT			FOR FURTHER ACTIO		otification of Transmittal of International nary Examination Report (Form PCT/IPEA/416)
			Literational files date (day/m		Priority date (day/month/year)
Internationa	• •		International filing date (day/mo	illivyear)	13/04/1999
PCT/US0					13/04/1399
International A61L2/28		nt Classification (IPC) or I	national classification and IPC		
Applicant					
	Sordh	nanbhai, N.			
1. This is and is	nterna trans	itional preliminary exa mitted to the applican	mination report has been prepa t according to Article 36.	red by this	International Preliminary Examining Authority
2. This F	REPO	RT consists of a total	of 5 sheets, including this cove	r sheet.	
b	een a	mended and are the b	ied by ANNEXES, i.e. sheets o asis for this report and/or shee 607 of the Administrative Instru	s containin	ption, claims and/or drawings which have g rectifications made before this Authority er the PCT).
These	e anne	exes consist of a total	of 11 sheets.		
<del> </del>		<del></del>		<del>_</del> -	
3. This r	enort	contains indications re	elating to the following items:		
0. 111131	СРОЛ		James Control of the		
ı	Ø	Basis of the report			
ii		•			
111			f opinion with regard to novelty,	inventive s	tep and industrial applicability
IV	니	Lack of unity of inven			
V	⊠	Reasoned statement citations and explana	under Article 35(2) with regard tions suporting such statement	to novelty,	inventive step or industrial applicability;
VI		Certain documents of	cited		
VII		Certain defects in the	e international application		
VIII	$\boxtimes$		on the international application		
Date of sub	missic	n of the demand	Date	of completion	on of this report
03/11/20	00		17.0	7.2001	
		address of the internation	Auth	orized office	
		ning authority:	Aut Aut	5., <u>2</u> 55 0,,00	Land Cold Million
		pean Patent Office 298 Munich	Kat	soulas, K	
ارو	Tel.	+49 89 2399 - 0 Tx: 5230	656 epmu d		Taran maker
Fax: +49 89 2399 - 4465			Tele	phone No. +4	49 89 2399 8613

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/09493

<ol> <li>Basis of the re</li> </ol>	pc	rt
-------------------------------------	----	----

1.	the and	receiving Office in	nents of the international applic response to an invitation under to this report since they do not co	Article 14 are	referred to in this repo	ort as "originally filed"
	5-18	3,22-31	as originally filed			
	1-4,	19-21	as received on	14/04/2001	with letter of	09/04/2001
	Clai	ims, No.:				
	9-18 31-3	3,30 (part), 38	as originally filed			
	39		with telefax of	03/11/2000		
	1-8, 40,4	19-29,30 (part), 11	as received on	14/04/2001	with letter of	09/04/2001
	Dra	wings, sheets:				
	1/4-	4/4	as originally filed			
2.	lang	guage in which the	guage, all the elements marked international application was file available or furnished to this Aut	d, unless othe	erwise indicated under	this item.
		•	translation furnished for the pur			nder Hule 23.1(b)).
			ublication of the international ap			
		the language of a 55.2 and/or 55.3).	translation furnished for the pur	poses of inter	national preliminary ex	kamination (under Hule
3.			cleotide and/or amino acid sec ry examination was carried out o			
		contained in the ir	nternational application in writter	form.		
		filed together with	the international application in o	computer read	dable form.	
		furnished subsequ	uently to this Authority in written	form.		
		furnished subsequ	uently to this Authority in compu	ter readable f	orm.	
			at the subsequently furnished wr		e listing does not go b	eyond the disclosure in

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/09493

		The statement that the listing has been furni		tion recor	ded in computer readable form is identical to the written sequence
4.	The amendments have resulted in the cancellation of:				
		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		
5.		•		•	ome of) the amendments had not been made, since they have been as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet contaii	ning such	amendments must be referred to under item 1 and annexed to this
3.	Add	litional observations, it	f necessar	y:	
V.		asoned statement un itions and explanatio			ith regard to novelty, inventive step or industrial applicability;
1.	Stat	tement			
	Nov	velty (N)	Yes: No:		10-14,22-29,33-36,38,39,41 1-9,15-21,30-32,37,40
	Inve	entive step (IS)	Yes: No:		10-14,29 22-28,33-36,38,39,41
	Indi	ustrial applicability (IA)	Yes: No:	Claims Claims	1-41

## 2. Citations and explanations see separate sheet

#### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

D1: WO98/58683; D2: WO98/52621

#### Ad Section V:

1. D1 discloses (cf. page 8 line 5) a device for monitoring plasma comprising a binder resin (polymer), having incorporated therein phenol red (indicator undergoing at least a colour change) and an alkali metal halide e.g. potassium bromide (activator) which, upon contact with plasma, undergoes halogenation and causes an indicator colour change from yellow to blue (page 4 lines 3-25, page 7 line 23). The polymer resin is soluble either in water or in a lower-alkyl alcohol (page 5 lines 7-9). Finally, the indicator can be pH-sensitive (page 8 line 29) and the activator can be a salt of an amine with an inorganic acid, such as tetra alkyl ammonium bromide.

Contrary to the comments of the applicant in the communication dated 09.04.2001, D1 contemplates the use of a monitor composition also on its own i.e. without any substrate (page 1 line 30) in a sterilisation process involving a plasma step (page 8 line 5). Thus, the composition (layer) is implicitly directly exposable to plasma. It follows that claims 1-9 and 15-21 are not new in view of the above disclosure (Art. 33(2) PCT).

- 2. Concerning the process claims, D1 discloses the use of a paper substrate to carry a solution of the monitor composition (cf. example 2), the substrate being part of a container for an item to be sterilised (page 14 lines 19-21). Thus, claims 30-32 are not new (Art. 33(2) PCT).
- 3. The device can be used to monitor sterilisation by affixing the device to the material to be sterilised (page 14, lines 12-18), the plasma being also derivable from hydrogen peroxide (page 14 line 5). Thus, claims 37 and 40 are not new in view of D1 (Art. 33(2) PCT).
- 4. D1 discloses the use of a plasma step in a sterilisation process which may involve a peracid (page 8 lines 5,6). Given that hydrogen peroxide is extensively used as a peracid in D1, it is considered as an obvious possibility to derive said plasma from hydrogen peroxide. Thus, claims 38, 39 and 41 lack an inventive step (Art. 33(3) PCT).

# INTERNATIONAL PRELIMINARY InterEXAMINATION REPORT - SEPARATE SHEET

- 5. D2 discloses the provision of particular resins in the indicator composition to influence the penetration rate of hydrogen peroxide generated plasma (page 7 lines 12-18) during sterilisation (page 4 lines 1-4). Thus, claim 24 lacks an inventive step in view of the combination of D1 and D2 (Art. 33(3) PCT).
- 6. The particular polymers according to claims 10-14, or the particular shape of the plasma permeable polymeric top layer according to claim 29 cannot be derived from the available art. They further succeed in solving the posed objective in an non-obvious manner. Thus, claims 10-14 and 29 meet the requirements of art. 33(3) PCT.

#### Ad Section VIII:

· . . \_ ·

- 1. Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
- 2. Contrary to the applicant's statement, no amended claims 30-39 were received with the submissions of 19.04.2001.
- 3. The paper by Paul T. Jacobs mentioned on page 2 of the applicant's submissions (letter of 19.04.2001) has not been supplied.